

MATERIAL SAFETY  
DATA SHEET

3M  
3M Center  
St. Paul, Minnesota  
55144-1000  
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DIVISION: AUTOMOTIVE AFTERMARKET

TRADE NAME:

3M General Trim Adhesive - Clear, P.N. 08080, 08081, 08088, 08089

ID NUMBER/U.P.C.:

|                |                  |                |                  |
|----------------|------------------|----------------|------------------|
| 60-9800-3060-9 | 00-51135-08088-7 | 60-9800-3061-7 | 00-51135-08089-4 |
| 60-9800-3236-5 | 00-51135-08080-1 | 60-9800-3237-3 | 00-51135-08081-8 |
| 60-9800-4514-4 | - - -            | CS-0406-7018-7 | - - -            |

ISSUED: December 13, 2001

SUPERSEDES: August 08, 2001

DOCUMENT: 07-5742-7

| 1. INGREDIENT                             | C.A.S. NO.  | PERCENT     |
|---|-------------|-------------|
| DIMETHYL ETHER.....                       | 115-10-6    | 30.0 - 60.0 |
| ACETONE.....                              | 67-64-1     | 10.0 - 20.0 |
| CYCLOHEXANE.....                          | 110-82-7    | 10.0 - 20.0 |
| PROPANE.....                              | 74-98-6     | 10.0 - 20.0 |
| PENTANE.....                              | 109-66-0    | 10.0 - 20.0 |
| NON-VOLATILE COMPONENTS - New Jersey      |             |             |
| Trade Secret Registry No. 04499600-       |             |             |
| 5468P.....                                | TradeSecret | 5.0 - 15.0  |
| HYDROTREATED HEAVY NAPHTHA (PETROLEUM)... | 64742-48-9  | 1.0 - 5.0   |
| FORMALDEHYDE.....                         | 50-00-0     | < 0.02      |

The components of this product are in compliance with the chemical  
notification requirements of TSCA.

This product contains the following toxic chemical or chemicals subject to  
the reporting requirements of Section 313 of Title III of the Emergency  
Planning and Community Right-To-Know Act of 1986 and 40 CFR Part 372:

CYCLOHEXANE  
FORMALDEHYDE

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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## 2. PHYSICAL DATA

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BOILING POINT:..... Compressed gas  
VAPOR PRESSURE:..... Compressed gas  
VAPOR DENSITY:..... N/A  
EVAPORATION RATE:..... N/A  
SOLUBILITY IN WATER:..... Nil  
SPECIFIC GRAVITY:..... 0.695 Water=1  
PERCENT VOLATILE:..... 87.75 % by wt  
pH:..... N/A  
VISCOSITY:..... N/A - Aerosol  
MELTING POINT:..... N/D

### APPEARANCE AND ODOR:

Liquid in aerosol container, clear-translucent, solvent odor

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## 3. FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT:..... -50.00 F  
FLAMMABLE LIMITS - LEL:..... 1.00 % by vol  
FLAMMABLE LIMITS - UEL:..... 7.00 % by vol  
AUTOIGNITION TEMPERATURE:..... N/D

### EXTINGUISHING MEDIA:

Carbon dioxide, Dry chemical, Foam

### SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 4 REACTIVITY: 0 AEROSOL STORAGE: 3  
UNUSUAL REACTION HAZARD: none

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## 4. REACTIVITY DATA

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STABILITY: Stable

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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4. REACTIVITY DATA (continued)  
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INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:  
Heat.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:  
Carbon Monoxide and Carbon Dioxide, Toxic Vapors, Gases or  
Particulates.

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5. ENVIRONMENTAL INFORMATION  
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SPILL RESPONSE:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Ventilate area. Extinguish all ignition sources. Contain spill. Evacuate unprotected personnel from hazard area. Cover with absorbent material. Cover spill area with Light Water Brand or other AFFF foam. (For further information on AFFF foam usage, contact 3M Fire Protection Systems.) Collect using non-sparking tools. Clean up residue with an appropriate organic solvent. Read and follow safety precautions on the solvent label and MSDS. Place in an approved metal container. Seal the container.

RECOMMENDED DISPOSAL:

Incinerate in a permitted hazardous waste incinerator. Facility must be capable of handling aerosol cans. Dispose of empty cans in a sanitary landfill. Disposal alternative: Dispose of completely absorbed waste product in a hazardous waste facility.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: 70.5 % by wt.  
Volatile Organic Compounds: 4.08 lb/gal calculated.  
Volatile Organic Compounds: 490 gms/liter calculated per SCAQMD rule 443.1.  
VOC Less H<sub>2</sub>O & Exempt Solvents: 578 gms/liter calculated per SCAQMD rule 443.1.

Since regulations vary, consult applicable regulations or authorities before disposal. In the event of an uncontrolled release of this material, the user should determine if the release qualifies as a reportable quantity. U.S. EPA Hazardous Waste Number = D001 (Ignitable) D018 (Benzene)

EPCRA HAZARD CLASS:

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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5. ENVIRONMENTAL INFORMATION (continued)

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FIRE HAZARD: Yes PRESSURE: Yes REACTIVITY: No ACUTE: Yes CHRONIC: Yes

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6. SUGGESTED FIRST AID

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EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Flush skin with large amounts of water. If irritation persists, get medical attention.

INHALATION:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

IF SWALLOWED:

Do not induce vomiting. Drink two glasses of water. Call a physician.

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7. PRECAUTIONARY INFORMATION

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EYE PROTECTION:

Avoid eye contact with vapor, spray, or mist. Wear vented goggles. Wear safety glasses with side shields.

SKIN PROTECTION:

Avoid prolonged or repeated skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: butyl rubber.

RECOMMENDED VENTILATION:

Do not use in a confined area or areas with little or no air movement. Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

Avoid breathing of vapors, mists or spray. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: full-face supplied air respirator.

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7. PRECAUTIONARY INFORMATION (continued)

PREVENTION OF ACCIDENTAL INGESTION:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Wash hands after handling and before eating. Do not ingest.

RECOMMENDED STORAGE:

Store at temperatures below 120 degrees F (49 degrees C). Store out of direct sunlight. Keep container in well-ventilated area. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Aerosol container contains flammable gas under pressure. Keep away from heat, sparks, open flame, and other sources of ignition. Extremely flammable liquid and vapor. Do not pierce or burn container, even after use. Vapors may ignite explosively. Avoid static discharge.

EXPOSURE LIMITS

| INGREDIENT   | VALUE      | UNIT    | TYPE | AUTH  | SKIN* |
|--|------------|---------|------|-------|-------|
| DIMETHYL ETHER.....  | 1000       | PPM     | TWA  | CMRG  |       |
| DIMETHYL ETHER.....  | 500        | PPM     | TWA  | AIHA  |       |
| ACETONE.....   | 500        | PPM     | TWA  | ACGIH |       |
| ACETONE.....   | 750        | PPM     | STEL | ACGIH |       |
| ACETONE.....   | 750        | PPM     | TWA  | OSHA  |       |
|  | OSHA       | VACATED | PEL  |       |       |
| ACETONE.....   | 1000       | PPM     | STEL | OSHA  |       |
|  | OSHA       | VACATED | PEL  |       |       |
| ACETONE.....   | 1000       | PPM     | TWA  | OSHA  |       |
| CYCLOHEXANE.....   | 300        | PPM     | TWA  | ACGIH |       |
| CYCLOHEXANE.....   | 300        | PPM     | TWA  | OSHA  |       |
| PROPANE.....   | 1000       | PPM     | TWA  | OSHA  |       |
| PROPANE.....   | 2500       | PPM     | TWA  | ACGIH |       |
| PENTANE.....   | 600        | PPM     | TWA  | ACGIH |       |
| PENTANE.....   | 600        | PPM     | TWA  | OSHA  |       |
|  | OSHA       | VACATED | PEL  |       |       |
| PENTANE.....   | 750        | PPM     | STEL | OSHA  |       |
|  | OSHA       | VACATED | PEL  |       |       |
| PENTANE.....   | 1000       | PPM     | TWA  | OSHA  |       |
| NON-VOLATILE COMPONENTS - New<br>Jersey Trade Secret Registry No.<br>04499600-5468P..... | NONE       | NONE    | NONE | NONE  |       |
| HYDROTREATED HEAVY NAPHTHA<br>(PETROLEUM).....   | 100        | PPM     | TWA  | 3M    |       |
| HYDROTREATED HEAVY NAPHTHA<br>(PETROLEUM).....   | 300        | PPM     | TWA  | CMRG  |       |
| FORMALDEHYDE.....  | 0.3        | PPM     | CEIL | ACGIH |       |
|  | SENSITIZER |         |      |       |       |

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EXPOSURE LIMITS (continued)

| INGREDIENT        | VALUE             | UNIT | TYPE      | AUTH | SKIN* |
|-------------------|-------------------|------|-----------|------|-------|
| FORMALDEHYDE..... | 0.75              | PPM  | TWA       | OSHA |       |
|                   | OSHA STANDARD     |      | 1910.1048 |      |       |
| FORMALDEHYDE..... | 0.5               | PPM  | TWA       | OSHA |       |
|                   | OSHA ACTION LEVEL |      |           |      |       |

\* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- 3M: 3M Recommended Exposure Guidelines
- ACGIH: American Conference of Governmental Industrial Hygienists
- AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure Level Guideline
- CMRG: Chemical Manufacturer Recommended Exposure Guidelines
- OSHA: Occupational Safety and Health Administration
- OSHAV: Occupational Safety and Health Administration Vacated PEL. Vacated Permissible Exposure Limits (PEL) are enforced as the OSHA PEL in some states. Check with your local regulatory authority.

- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing.

SKIN CONTACT:

Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

INHALATION:

Intentional concentration and inhalation may be harmful or fatal.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

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8. HEALTH HAZARD DATA (continued)

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Prolonged or repeated overexposure, above recommended guidelines, may cause:

Kidney Effects: signs/symptoms can include reduced urine volume, blood in urine and back pain.

Liver Effects: signs/symptoms can include yellow skin(jaundice) and tenderness of upper abdomen.

Simple Asphyxiation: signs/symptoms can include light-headedness, rapid heart beat, a feeling of suffocation and blue color. Unconsciousness and death may occur if oxygen deprivation is severe or prolonged. Simple asphyxiation results from the displacement of oxygen in air to a concentration which is less than that necessary to maintain life.

IF SWALLOWED:

Ingestion is not a likely route of exposure to this product.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue, blurred vision, slurred speech, giddiness, tremors and convulsions.

CANCER:

WARNING: Contains a chemical which can cause cancer. (50-00-0) (NTP anticipated human carcinogen, IARC probable human carcinogen 2A, OSHA listed carcinogen, Calif. Proposition 65)

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SECTION CHANGE DATES

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| HEADING | SECTION CHANGED SINCE August 08, 2001 | ISSUE |
|---------|---------------------------------------|-------|
|---------|---------------------------------------|-------|

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